

```
code:-
   vector Lanty bottomview ( Node * root) {
       vector < ant oms;
       of (root == NULL) return oms;
    map < mt, mt) mp;
     queue < pour, Node * 9nt) 9;
        q. push ({ root, 03);
     www. (!q. empty()){
           auto 9t = q. front();
           9. pop();
          Node *node = 9+ forst;
           Int line = 9t. second;
           mp[line] = node ->data;
       of (node-reft! = NULL) {
           q.push ({node-rleft, line-1});
       of ( node -> right! = NULL) {
              q. push ({node-) right, Bne+13);
      for (auto 9t: mp) {
            ams. push_back (90: second);
       return ans;
```

```
# Right-Left side view!
                          Right view: 13 76
  we can use the recursive / terative techanque
                                     Vievel order
                pre-order
                                       TC:0(n)
              (In reverse)
              n Root left fight. The will do
                Root Ragne Left
Using recursive method for crisp & enon code
  f (node, level) {
    84 (node == nul)
            return;
   of ( level = = ds.size )
       as.add (node)
  f (node -> right, level +1);
 of ( node -> left , level+1);
      11 Pseudo Code.
                                For left view,
                                fust call left
                                - passt.
                     (levels)
        ds
```

```
vector earth rightside view (Tree Node * root) {

Vector earth res;

recursion (root, 0, res);

return res;

}

void recursion (Tree Node * root, ant level,

vector earth fres) {

of (root == NULL) return;

of (res. size() == level) res. push_back (root vai)

recursion (root -> right, level+1, res);

recursion (root -> left, level+1, res);

}
```